

Claims

- [c1] In an electric motor of the type comprising an internal stator, including a shaft fixedly mounted to a structural support and an external rotor rotatably mounted to the shaft; the improvement wherein:
the shaft is mounted to the structural support through at least one mounting block having a yoke with two opposed bushings and a clamp carrying the shaft, and with the clamp mounted to the bushings whereby the mounting block damps vibrations of the motor in all directions while maintaining torsion stability.
- [c2] The electric motor according to claim 1 wherein a portion of the shaft is keyed and the clamp comprises upper and lower connection plates shaped to receive the keyed shaft portion.
- [c3] The electric motor according to claim 2 wherein each of the upper and lower connection plates has a recess complementary in shape to the bushing and sized to co act with each other to clamp the bushing between them.
- [c4] The electric motor according to claim 3 wherein each recess is semi-cylindrical.

- [c5] The electric motor according to claim 4 wherein each recess is located eccentrically relative to a longitudinal axis of the connection plate and a longitudinal axis of each recess in a connection plate is offset in the same direction from the longitudinal axis of the connection plate.
- [c6] The electric motor according to claim 5 wherein the clamp has a flush side and a projecting side, each of which can be selected to be adjacent to the external rotor by reversing its mounting to the bushings.
- [c7] The electric motor according to claim 3 wherein each recess is located eccentrically relative to a longitudinal axis of the connection plate and a longitudinal axis of each recess in a connection plate is offset in the same direction from the longitudinal axis of the connection plate.
- [c8] The electric motor according to claim 5 wherein the clamp has a flush side and a projecting side, each of which can be selected to be adjacent to the external rotor by reversing its mounting to the bushings.
- [c9] The electric motor according to claim 1 wherein the clamp is mounted to the bushings eccentrically.
- [c10] The electric motor according to claim 1 wherein the clamp has a flush side and a projecting side, each of

which can be selected to be adjacent to the external rotor by reversing its mounting to the bushings.

- [c11] A mount for an electric motor of the type having a stationary shaft, the mount comprising a yoke with two opposed bushings and a clamp for holding the stationary shaft, wherein the clamp is mounted to the bushings within the yoke, whereby the mounting block damps vibrations of the motor in all directions while maintaining torsion stability.
- [c12] The mount according to claim 11 wherein the clamp comprises upper and lower connection plates sized and shaped to clamp securely to the shaft.
- [c13] The mount according to claim 2 wherein each of the upper and lower connection plates has a recess complementary in shape to the bushing and sized to co act with each other to clamp the bushing between them.
- [c14] The electric motor according to claim 13 wherein each recess is semi-cylindrical.
- [c15] The electric motor according to claim 14 wherein each recess is located eccentrically relative to a longitudinal axis of the connection plate and a longitudinal axis of each recess in a connection plate is offset in the same direction from the longitudinal axis of the connection

plate.

- [c16] The electric motor according to claim 15 wherein the clamp has a flush side and a projecting side, each of which can be selected to be adjacent to the electric motor by reversing its mounting to the bushings.
- [c17] The electric motor according to claim 13 wherein each recess is located eccentrically relative to a longitudinal axis of the connection plate and a longitudinal axis of each recess in a connection plate is offset in the same direction from the longitudinal axis of the connection plate.
- [c18] The electric motor according to claim 15 wherein the clamp has a flush side and a projecting side, each of which can be selected to be adjacent to the electric motor by reversing its mounting to the bushings.
- [c19] The electric motor according to claim 11 wherein the clamp is mounted to the bushings eccentrically.
- [c20] The electric motor according to claim 11 wherein the clamp has a flush side and a projecting side, each of which can be selected to be adjacent to the external rotor by reversing its mounting to the bushings.